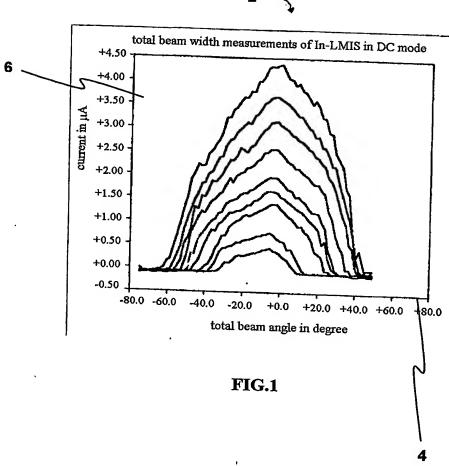
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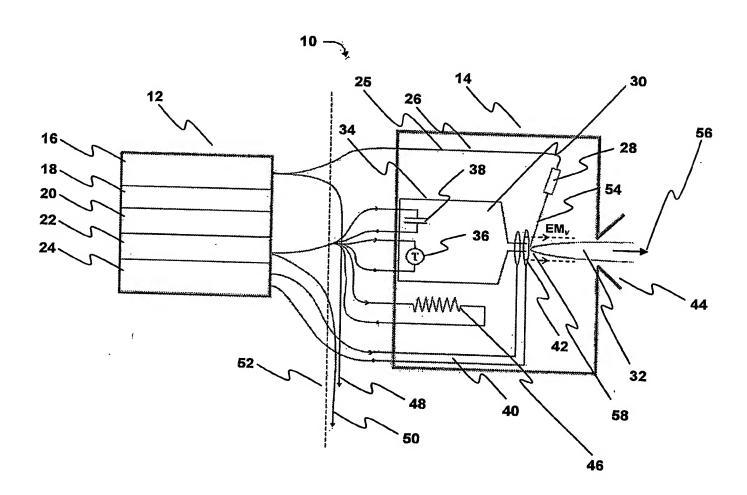


FIG. 2

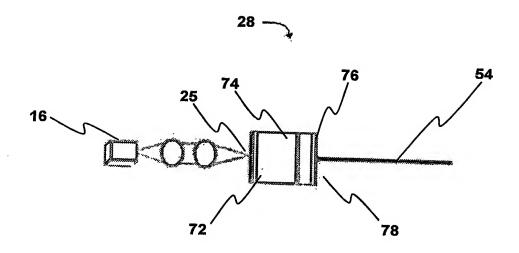


FIG. 3

41

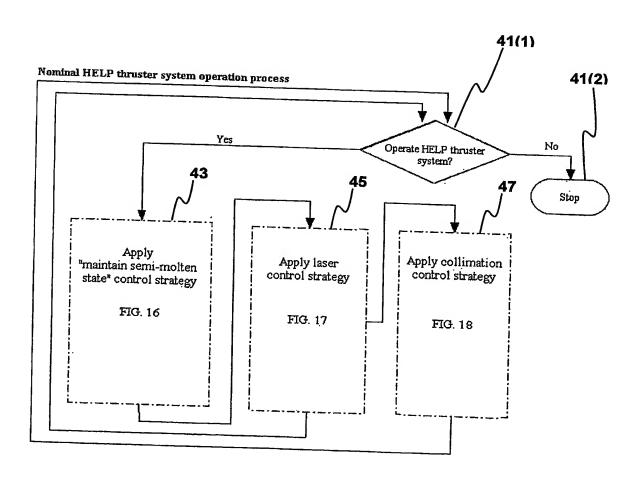


FIG. 4

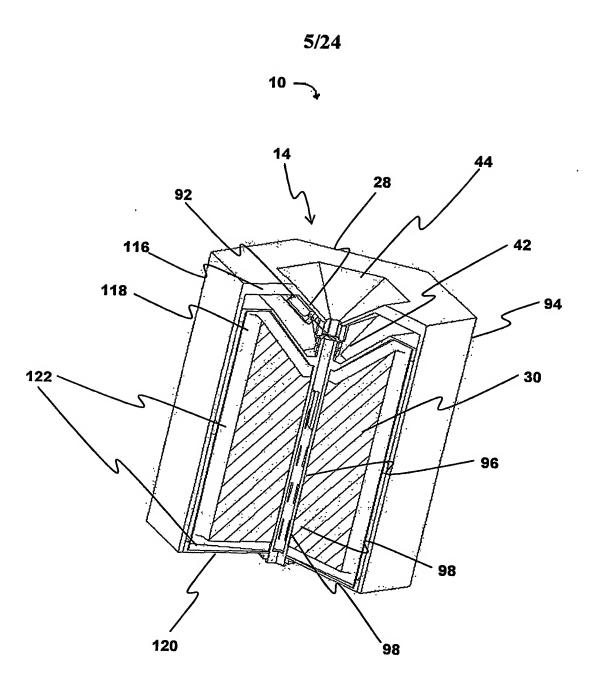


FIG. 5

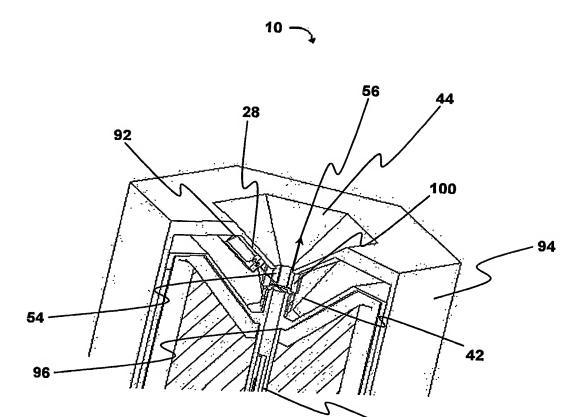


FIG. 6

98



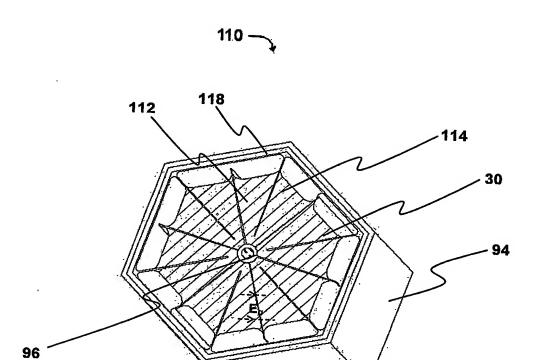


FIG. 7

WO 2005/003557

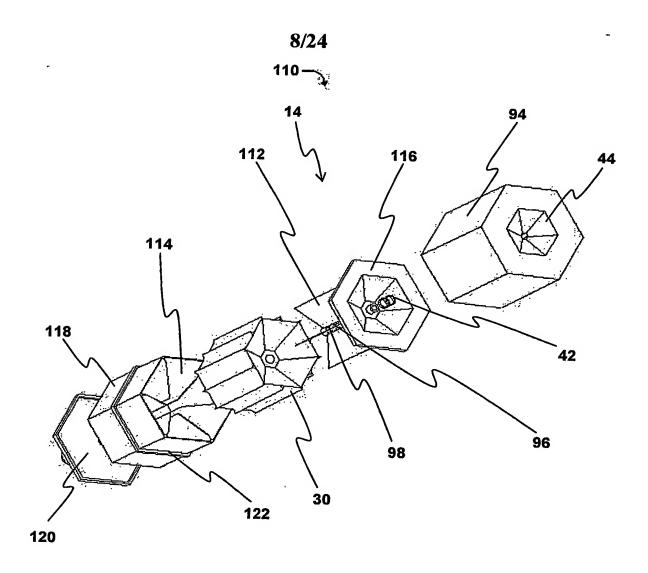


FIG. 8

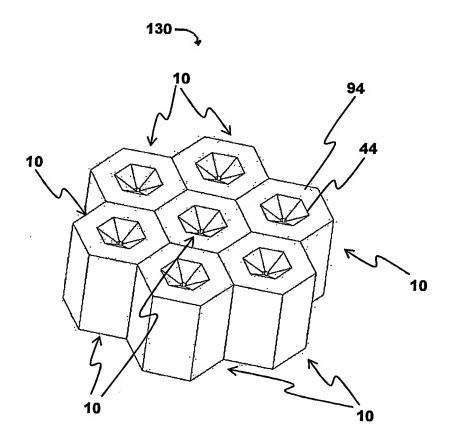


FIG. 9





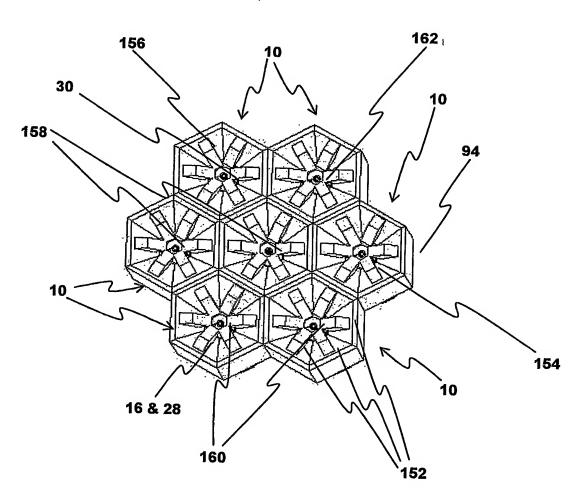
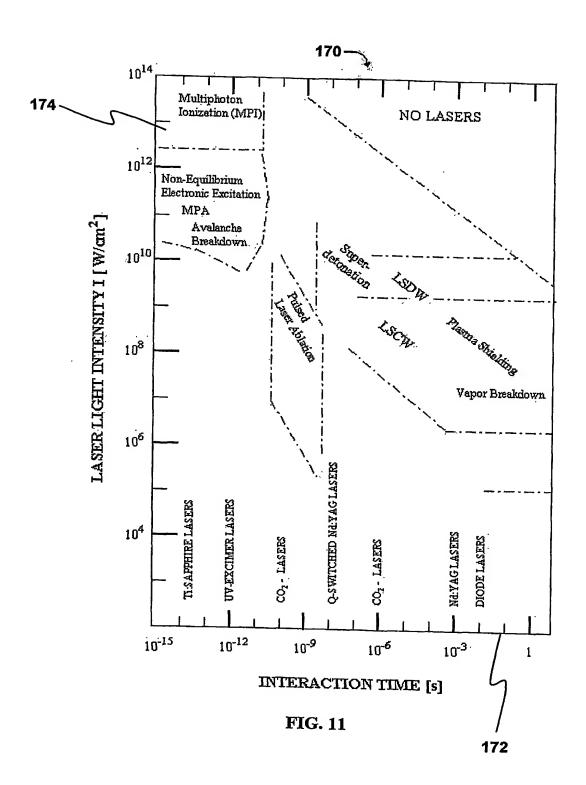


FIG. 10

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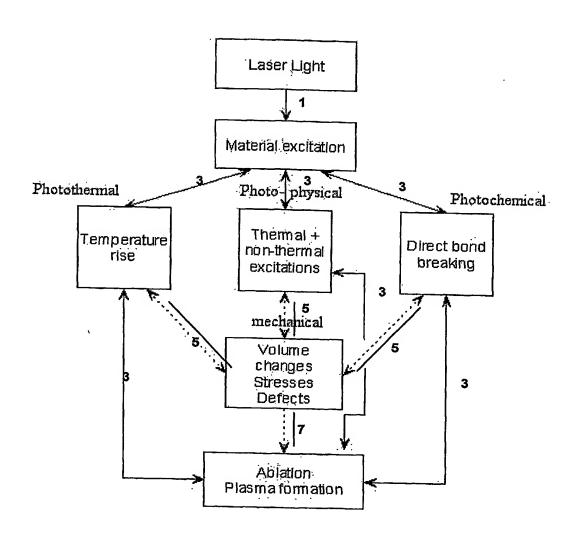


FIG. 12

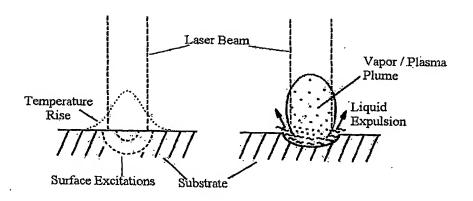


FIG. 13

Plasma Shielding Range

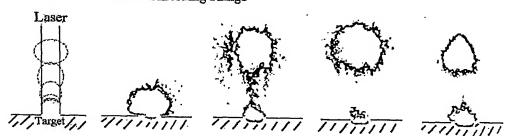


FIG. 14

Processing Range



FIG. 15



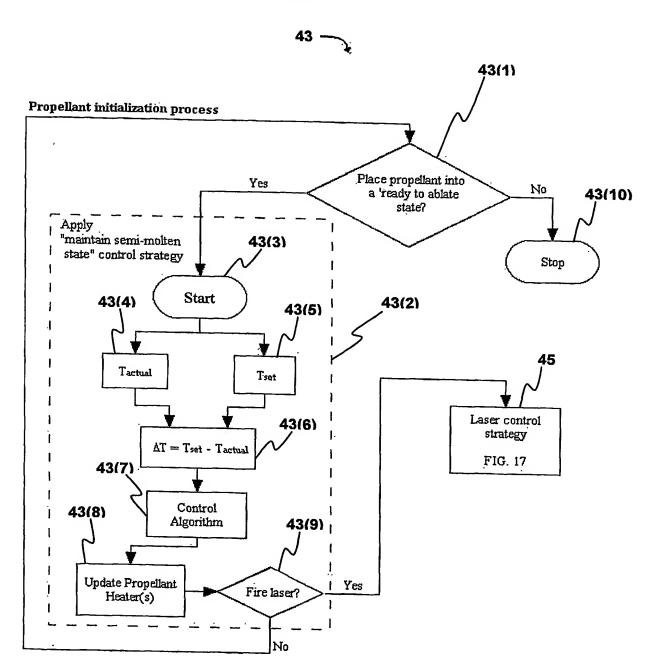


FIG. 16

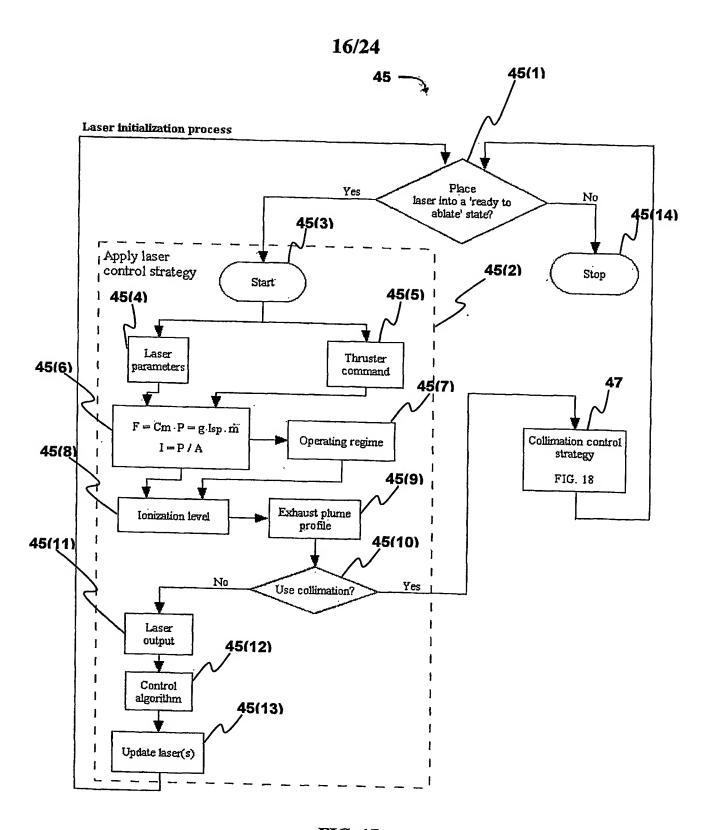


FIG. 17



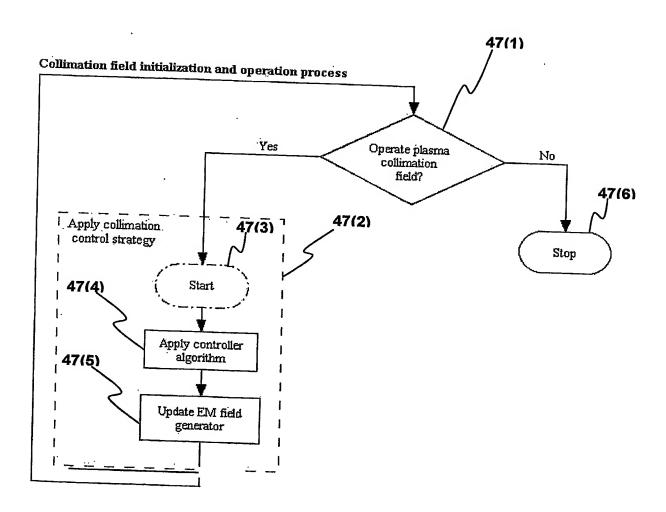


FIG. 18

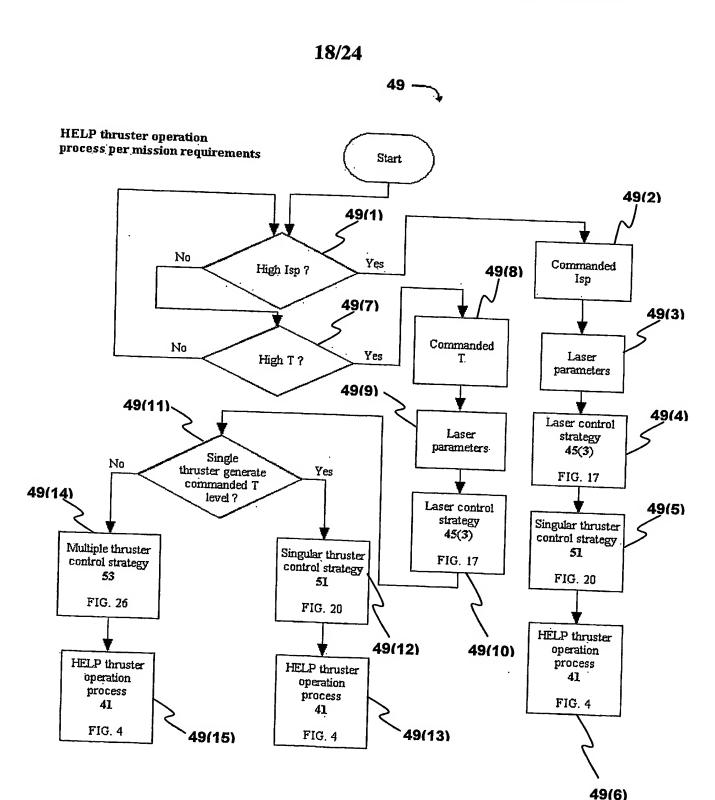
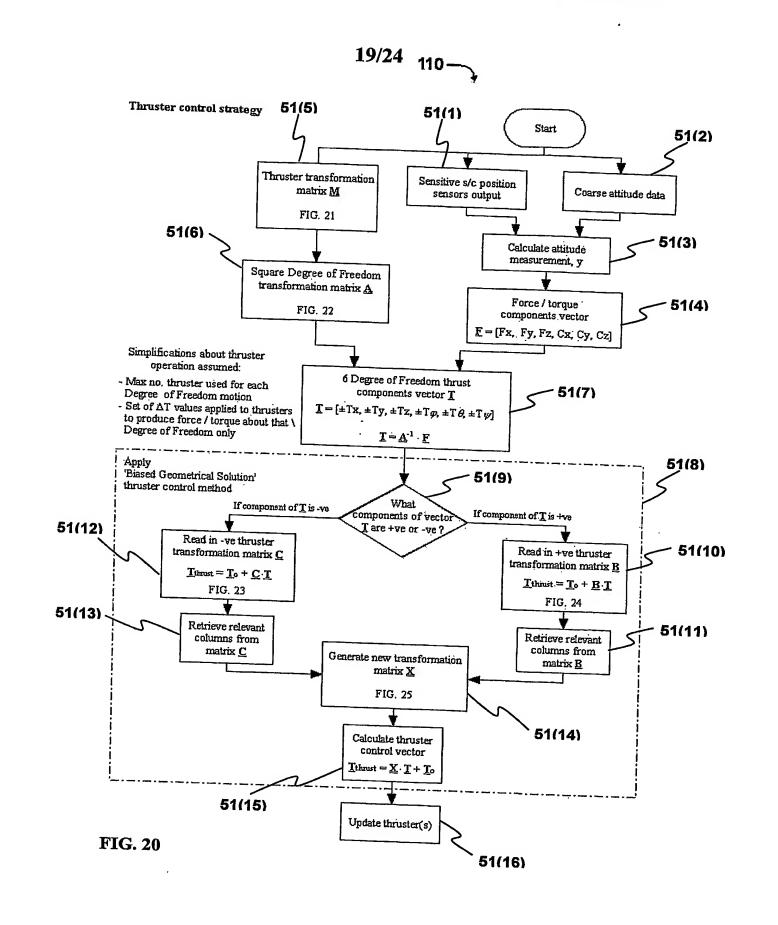


FIG. 19



		Г		_										20	0/2	4										
Ę	£thrust		Ithrust	П	1	:	23		T4		Ts		2		T		 84	٤	À	Tio		Ti	Į	Tiz		
	•			cos20°*	cos 70°		-cos20°*	.09soo	+0250-	cos€0°*D	0		-cos200*	cos30°*D						J		L			١	
				-cos20°*	cos70°		-cos20°*	c09800	-cos20°*	cose0°*D	0		cos20°*	cos30°*D												
			9	>	cos70°		cos20°	4,000	Π±-07500		5		0													
*			2002	0/so2	cos20°*	cos30°	-cos20°*	Opena	>	100	±07500-	വൂഹി വ	-cos200*	cos30°*D												
			200700	0/802	-cos20°*	cos30°	*.07502-	0		+0000	- UZSO3 -	CT_DOSM	cos20°*	COSSULTED												
			-00200-	A inch	0	900,000	-0250	0		C#0/Cac	7. 07500		>													21
M		M	-cos20°*	cos30°	-cos70°	*0UC3U3=	09800	cos20°*	C**09800	0		*000000	-00200-	O Ocean												FIG. 21
			cos20°*	cos30°	-003/0	-cos200*	.09soo	-cos20°*	C08600*D	0		coc200*	COS30*#D													
			0	200700	-0/802-	cos20°		-cos20°*D		0		0														
			cos70°	*0UC3UJ*	00830	-cos20°*	°09800	>		cos20°*	Cose00*D	cos20°*	cos30°*D													
		202	-0/sos	cos20°*	cos30°	-cos20°*	09800	>	*00000	COSZU-	cose0°	cos20°*	cos30°*D													
		2002	2/88	0	-+	cos20°	-	>	Cocono	7 07500		_							F = Force	C=Torque	$\Gamma = Thrust$					
#I		Ŧ	!	Fy]] []	đ	<u>-</u>	ථ	}	اح	3						Where	7	-						

21/24

<u>F</u> =	=		<u>A</u>		*	T	
F			A				
Fx	(3cos70°+ 2cos20°*cos30°)	0	0	0	0	T	
Fy	0	(3cos70°+	0	0	0	0	Tx
Fz =	+	2cos20°*cos30°) 0	(4cos20°)	0		0	Ту
	0	0	0	(2cos20°*D+ 2cos20°* cos60°*D)	0	0	Tz Tø
Св	0	0	0	0	(2cos20°*D+	0	Тө
Сψ	0	0	0	0	2cos20°*cos60°*D)	(4cos20°*	Tψ
						cos60°*D)	, v

FIG. 22

T _{thrust} =	=		<u>C</u>		*		<u>T</u>	+	<u>T</u> .
<u>T</u> thrust			C				777		
	X	V	z	T &	1 0		T		Bias thrust To
Tı	0	0.5	0	Φ 0	$\frac{\theta}{2}$	Ψ	<u> </u>		To
T ₂	0	0	Ť	0.5	$\frac{2}{0}$	1-1-	-Tx		1
Т3	0	1	i	0.5	0	0	-Ty		1
T4	0.5	1	Ô	2	0	1	-Tz		1
T5	0	1	1	0	0.5	0	-Τφ		1
T6 =	1	1	1	0	0.5	0	-Тө		1
T7	1	0.5	0	0	0.5	+	-Τψ	+	1
T8	1	1	1	0.5	1	1 0			1
T9	1	0	1	0.5	1	1			1
T10	0.5	0	0	0.5	0	0			1
T11	1	0	1	1	0.5	0			1
T12	0	0	1	1	0.5	1			1
					0.5				1

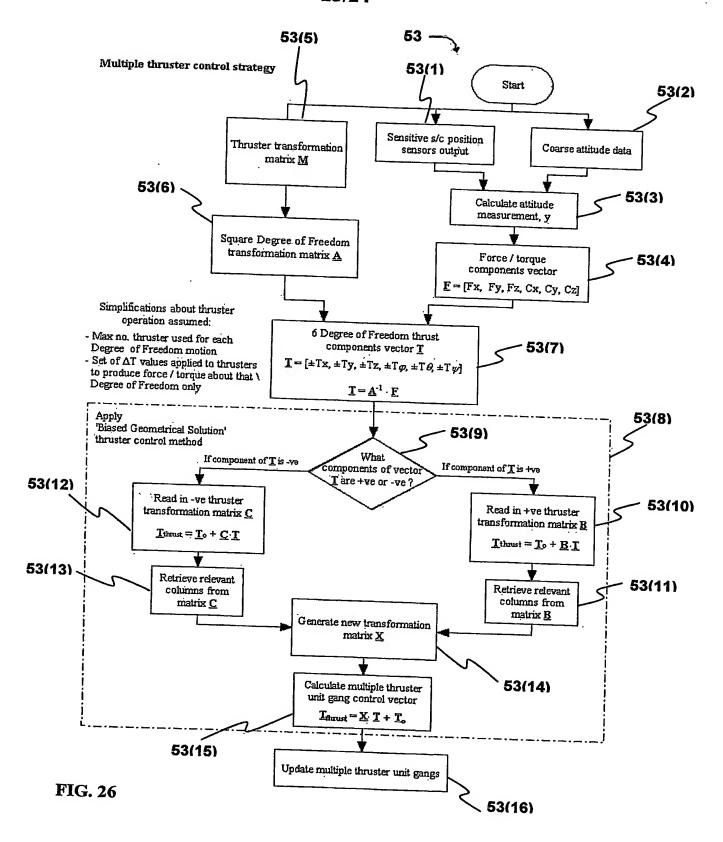
FIG. 23

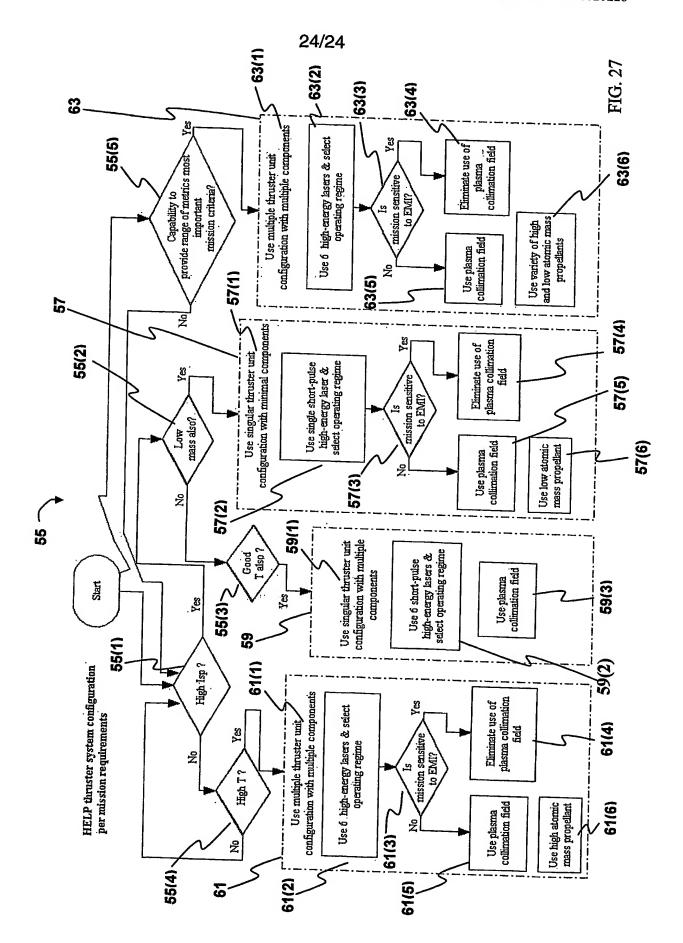
T _{thrust} =			<u>B</u>		22/ *	/24	I	+	<u>T</u> o
Tthrust	ļ		В				T		Diog 4h (77)
	L X	у	Z	ф	θ	1111		 	Bias thrust <u>To</u>
T1	1	0.5	1	0	0	Ψ_			To
T2	1	1	ō	0.5	1 -	┼÷	Tx		1
Т3	1	0	Ö	0.5	1-1-	1 -	Ту		1
T4	0.5	0	1	0.5	-	0	Tz		1
T5	1	0	0	1	0	0	Тф		1
T6 =	0	Ö	0	0.5	0.5	1	Тө		1
T7	Ö	0.5			0.5	0	Тψ	+	
T8	0	0.5	0	0	2	1			
T9	Ö	- i -		0.5	0	1			1
T10	0.5		0	0.5	0	0			1
T11	0.5	+		2	0	0			1
T12			_0_	0	0.5	1			<u>-</u>
112			_0_	0	0.5	0			<u>-</u>

FIG. 24

Tthrust =	: 		<u>X</u>		*		<u>T</u>	+	$\underline{\mathbf{T}}_{\mathbf{o}}$
Tthrust			X				T		77.
	x	У	Z	ф	θ	т			Bias thrust <u>To</u>
T ₁	0	0	0	0		Ψ			To
T ₂	0	0	0	0	0	0	-Tx		1
Т3	10	0	0		0	0	-Ty		1
T4	0.5	0	0	0	0	0	-Tz		
T5	0.5	0		0	0	0	-Τφ		
T6 =			0	0	0	0	-Тө		
T ₇	·	0	0	0	0	0	-Τψ	+	
T8	1	0	0	0	0	0			
	1	0	_ 0	0	0	0			l
T9	1	0	0	0	0	0			1
T10	0.5	0	0	0	0	0			1
T11	1	0	0	0	0				1
T12	0	0	0	0	0	0			1
					U	0		-	1

FIG. 25





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